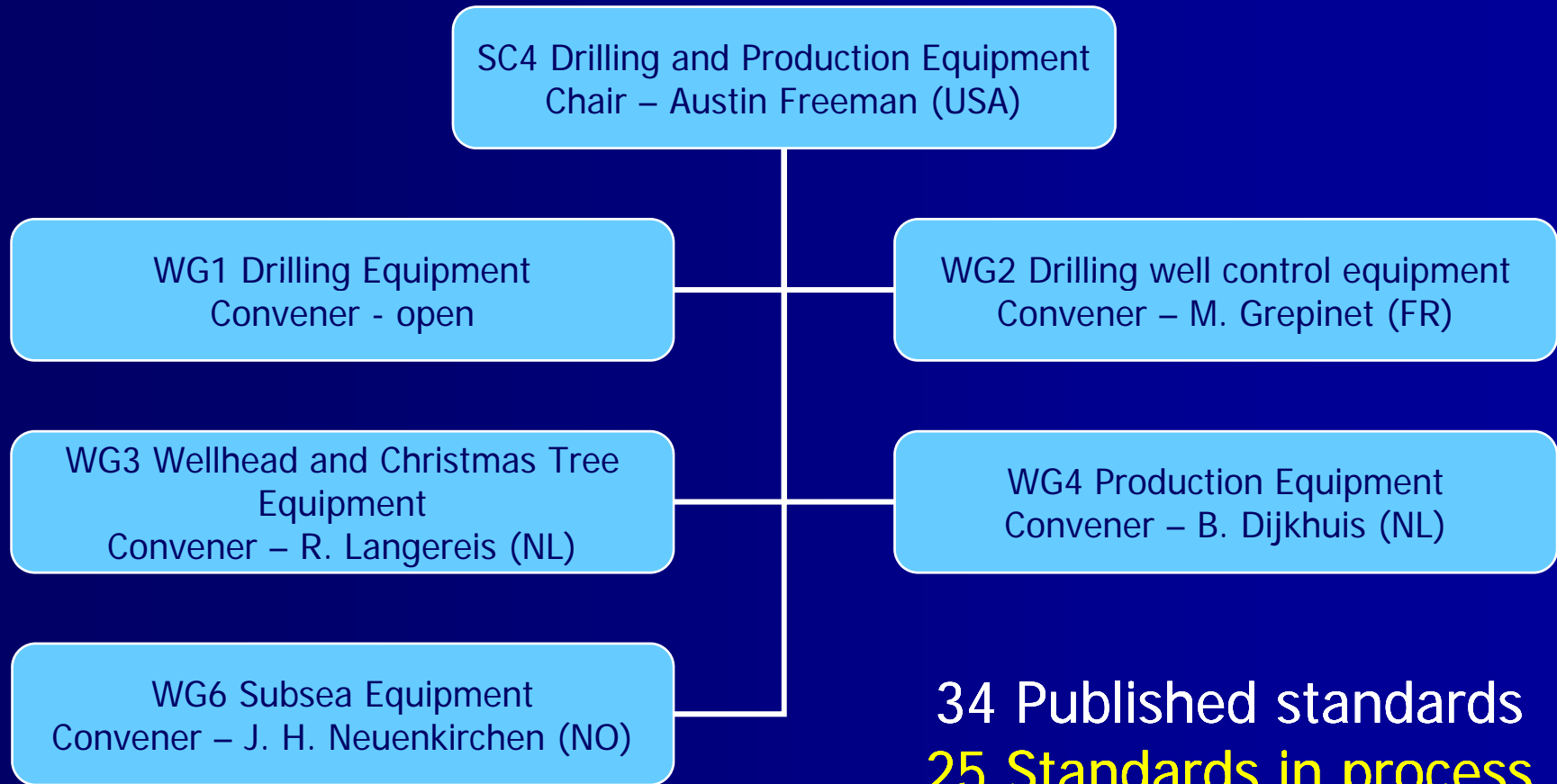


ISO TC67/SC4 Standards Overview

CNPC/OGP workshop

Dr. Austin Freeman, P.E., Chair of SC4

SC4 Organization



Membership of SC4

P Members (14)

- Argentina (IRAM)
- Brazil (ABNT)
- Canada (SCC)
- China (SAC)
- France (AFNOR)
- Germany (DIN)
- Indonesia (BSN)
- Italy (UNI)
- Korea, Republic of (KATS)
- Netherlands (NEN)
- Norway (SN)
- Poland (PKN)
- United Kingdom (BSI)
- Unites States (ANSI)

O members (5)

- Romania (ASRO)
- Russian Federation (GOST R)
- Serbia (ISS)
- South Africa (SABS)
- Spain (AENOR)

WG1 – Drilling equipment

- Includes standards for various items of drilling equipment such as:
 - Drill stem components
 - Hoisting equipment
 - Drilling equipment
 - Well-servicing equipment
- Due to changes at NOV/Grant-Prideco, Brett Chandler has had to resign as WG1 Convener so that position is now open

WG1 Standards

■ ISO Standard

- [10407-1](#); Drill stem design & op limits
- [10407-2](#); Insp of drill stem elements
- [10424-1](#); Rotary drill stem elements
- 10424-2; Threading & gauging of TJ thd
- [13534](#); Insp, maint., & repair of hoisting
- [13535](#); Hoisting equipment
- [13626](#); Drlg & well servicing structures
- [14693](#); Drlg & well servicing equipment

in revision

■ API Standard

- RP 7G
- RP 7G
- Spec 7-1
- Spec 7-2
- RP 8B
- Spec 8C
- Spec 4F
- Spec 7K

revision planned

WG2 – Drilling well control equipment

- Includes standards for various items of drilling equipment such as:
 - BOPs
 - Riser systems
 - Riser couplings
- M. Griepinet has accepted the position of convener which has been open for a couple of years.

WG2 Standards

■ ISO Standard

- 13533; Drill through equipment
- 13624-1; Design & Op of riser systems
- 13624-2; Applic of riser system analysis
- 13625; Marine drilling riser couplings

in revision

■ API Standard

- Spec 16A
- RP 16Q
- RP 16Q
- Spec 16R

revision planned

WG3 – Wellheads and Christmas trees

- Includes one standard for wellheads and christmas trees (plus many other products such as)

Valves

Flanged connections

Studs and Nuts

Casing and tubing heads

Casing and tubing hangers

Chokes

Tees and crosses

Actuators

Surface and Underwater Safety

Valves

Bullplugs

Ring gaskets

- Mr. Langereis (NL) has led this workgroup for the last couple of years.

WG3 – Wellheads and Christmas trees

- ISO 10423 is in revision. The DIS has been circulated and comments received. Comment resolution in process.

WG4 – Production Equipment

- Includes standards for equipment normally associated with production. This includes both surface production and downhole completion equipment.
- Mr. Dijkhuis (NL) has led this workgroup for many years and has been very prolific in standards generation/reviews.

WG4 Standards

■ ISO Standard

- [10428](#); Sucker Rods
- [10431](#); Beam Pumping Units
- [14310](#); Packers and Bridge Plugs
- [15136-1](#); PCP Pumps
- 15136-2; Surface drive systems
- [17824](#); Sand control screens
- [28781](#); Formation barrier valves

in revision

■ API Standard

- Spec 11B
- Spec 11E
- Spec 11D1
- Spec 11D2

revision planned

WG4 Standards

■ ISO Standard

- 10417; SSSV installation
- 10432; Sub-surface safety valves
- 16070; Landing nipples & lock mandrels
- 17078-1; Side pocket mandrels
- 17078-2; Flow control devices
- 17078-3; Gas Lift Latches
- 17078-4; Gas Lift practices

in revision

■ API Standard

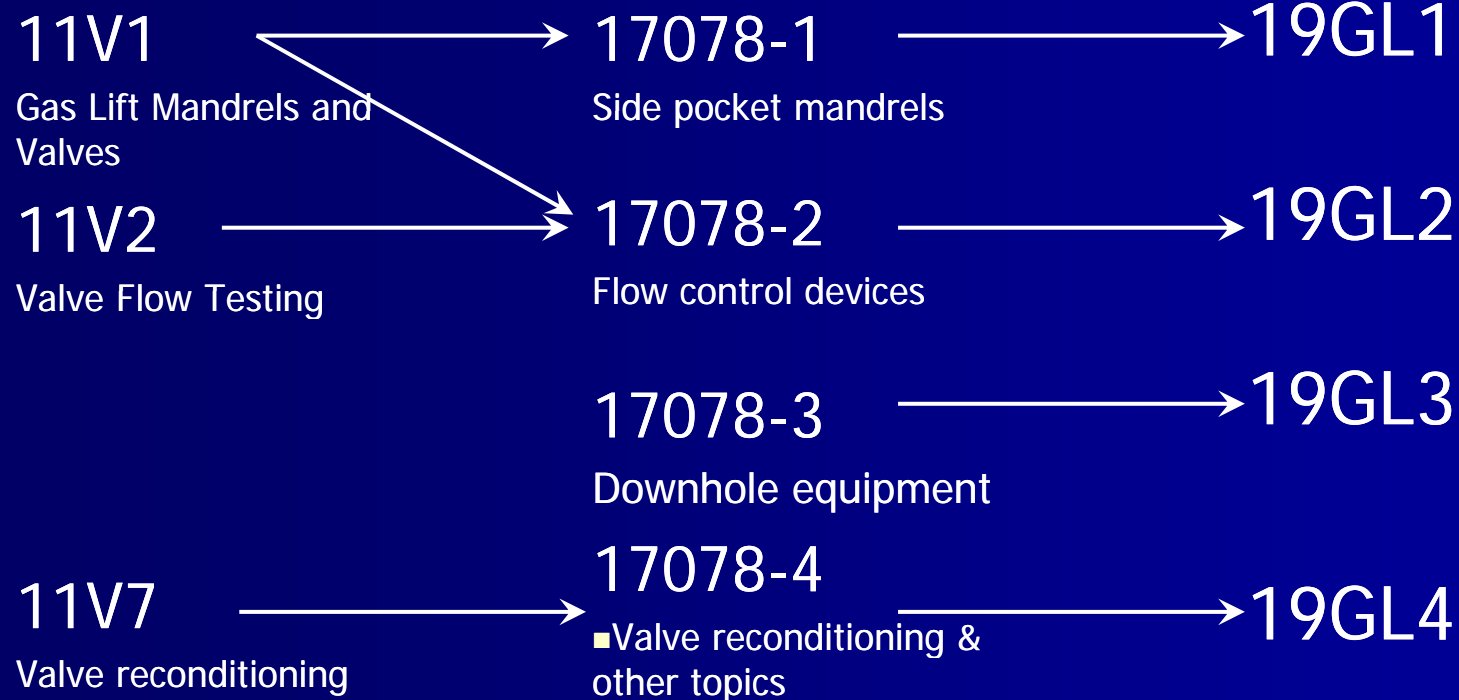
- RP 14B
- Spec 14A
- Spec 14L
- See note
- See note
- See note
- See note

revision planned

Gas Lift Standard detail

- When ISO 17078-1 and 17078-2 were created, it was intended to parse out the content in API 11V1 to better define the requirements.
- Additionally, content in API 11V2 was moved into -2 and -3 was created as a new document. The content in -4 is from an RP.
- Once all ISO documents are complete, the API standards will be adopted back and re-issued with new numbers.

Gas Lift Standard Detail



WG6 – Subsea Equipment

- Includes standards for subsea equipment and control systems:
- Mr. J. H. Neuenkirchen replaces Mr. O. Indeberg after his many years of service to this workgroup.

WG6 Standards

■ ISO Standard

- **13628-1**; 2 amendments in process
- **13628-4**; Subsea wellheads
- **13628-5**; Subsea umbilicals
- **13628-12**; Dynamic production risers
- **13628-13**; ROV tools and interfaces
- **13628-15**; structures and manifolds
- **13628-16**; flexible pipe ancillary equip.
- **13628-17**; RP for flexible pipe

in revision

■ API Standard

- Spec 17A
- Spec 17D
- Spec 17E
- RP 2RD
- RPs17H, 17M
- 17L1
- 17L2

revision planned

WG6 Standards

■ ISO Standard

- 13628-2; flexible pipe systems
- 13628-3; TFL systems
- 13628-6; Subsea production systems
- 13628-7; workover/completion risers
- 13628-8; ROV interfaces
- 13628-9; ROV intervention system
- 13628-10; bonded flexible pipe
- 13628-11; flexible pipe systems

in revision

■ API Standard

- Spec 17J
- Spec 17C
- Spec 17F
- RP 17G
- RP 17H
- RP 17M
- Spec 17K
- RP 17B

revision planned

Summary Standards View

Activity	Year					
	2008	2009	2010	2011	2012	2013
NWI Needed	10424-1 13626 14693 13628-7					
Expected Publication	14310 10407-2 13624-2	13534 13535 13624-1 10423 10431 15136-1 17078-3 17078-4 17824 13628-4 13628-5	10407-1 28781 13628-13	13628-12 13628-15	13628-16 13628-17	
Systematic Reviews	13628-10 13628-1	10424-2 15136-2 13628-2 13628-6	16070 17078-2 13628-11 13628-3 13628-7	13533		13625 10417 10432 17078-1